

Title (en)

Ventilator and air conditioner having the same

Title (de)

Ventilator und Klimaanlage mit diesem Ventilator

Title (fr)

Ventilateur et conditionneur d'air comprenant un tel ventilateur

Publication

EP 1632730 A3 20080123 (EN)

Application

EP 05019010 A 20050901

Priority

JP 2004257295 A 20040903

Abstract (en)

[origin: EP1632730A2] A ventilator (50) having an air supply fan (55) for supplying outdoor air into a room, an air exhaust fan (63) for exhausting indoor air to the outside of the room, and a total heat-exchanging element (53) for heat-exchanging the outdoor air and the indoor air, characterized by comprising a control unit (45) for controlling the supply amount of the outdoor air supplied by the air supply fan (55) so that the total heat-exchanging element (53) is heated by heat of the indoor air exhausted by the air exhaust fan (63) when the temperature of the outdoor air is equal to a predetermined temperature or less, thereby preventing the total heat-exchanging element (53) from being frozen. An air conditioner having the ventilator (5).

IPC 8 full level

F24F 12/00 (2006.01); **F24F 1/00** (2011.01); **F24F 7/08** (2006.01); **F24F 11/00** (2006.01); **F24F 11/04** (2006.01); **F24F 13/32** (2006.01)

CPC (source: EP KR)

F24F 7/08 (2013.01 - KR); **F24F 7/10** (2013.01 - KR); **F24F 11/0001** (2013.01 - KR); **F24F 11/76** (2017.12 - KR); **F24F 11/77** (2017.12 - EP); **F24F 12/006** (2013.01 - EP KR); **F24F 13/30** (2013.01 - KR); **F24F 11/41** (2017.12 - EP); **F24F 2011/0002** (2013.01 - EP); **F24F 2012/007** (2013.01 - EP); **F24F 2110/12** (2017.12 - EP); **F24F 2221/14** (2013.01 - EP KR); **Y02B 30/56** (2013.01 - EP); **Y02B 30/70** (2013.01 - EP)

Citation (search report)

- [X] EP 1445549 A1 20040811 - DAIKIN IND LTD [JP]
- [X] JP 2003074937 A 20030312 - MITSUBISHI ELECTRIC CORP
- [X] JP H11304206 A 19991105 - DAIKIN IND LTD

Cited by

FR2939872A1; EP2184557A1; EP2256424A3; US8944897B2; US2010243749A1; EP2944892A1; FR3021101A1; EP3686501A4

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1632730 A2 20060308; **EP 1632730 A3 20080123**; CN 100346109 C 20071031; CN 1743742 A 20060308; JP 2006071225 A 20060316; JP 4565936 B2 20101020; KR 100671912 B1 20070122; KR 20060050949 A 20060519

DOCDB simple family (application)

EP 05019010 A 20050901; CN 200510092337 A 20050829; JP 2004257295 A 20040903; KR 20050081481 A 20050902